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APPLICATION NO. FILING DATE		IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/075,387	02/15/2002		Jay H. McCandless	HAR66 816 CONT	9309	
7:	590	06/17/2002				
Duane Morris LLP				EXAMINER		
Suite 700 1667 K Street, N.W.				WIMER, M	WIMER, MICHAEL C	
Washington, D	C 20006			ART UNIT PAPER NUMBER		
				2821	·	
				DATE MAILED: 06/17/2002	DATE MAILED: 06/17/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	1
0.00	10/075,387	MCCANDLESS ET AL.	
· Office Action Summary	Examiner	Art Unit	
	Michael C. Wimer	2821	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with th	ne correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply find the reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a reply body within the statutory minimum of thirty (30) I will apply and will expire SIX (6) MONTHS to become ABANDO	the timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 15	February 2002 .		
2a) ☐ This action is FINAL . 2b) ☐ T	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	vance except for formal matters r Ex parte Quayle, 1935 C.D. 1	, prosecution as to the merits is 1, 453 O.G. 213.	
4)⊠ Claim(s) <u>40-90</u> is/are pending in the applicati	ion.		
4a) Of the above claim(s) is/are withdra			
5)⊠ Claim(s) <u>60-62,89 and 90</u> is/are allowed.			
6)⊠ Claim(s) <u>40-59,63-78 and 81-88</u> is/are rejecte	ed.		
7)⊠ Claim(s) <u>79 and 80</u> is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examin	er.		
10) The drawing(s) filed on 15 February 2002 is/ar	re: a)⊠ accepted or b)⊡ objected	d to by the Examiner.	
Applicant may not request that any objection to the			
11)☐ The proposed drawing correction filed on		proved by the Examiner.	
If approved, corrected drawings are required in re	· -		
12) The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 11	9(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
 Certified copies of the priority documen 	ts have been received.		
2. Certified copies of the priority documen			
 3. Copies of the certified copies of the price application from the International Bit * See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	· ·	
14) ☐ Acknowledgment is made of a claim for domest			`
a) ☐ The translation of the foreign language pr 15)☐ Acknowledgment is made of a claim for domes	ovisional application has been	received.	<i>)</i> .
Attachment(s)	are priority and or o.o.o. gg	120 alia/01 121,	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. It is noted that it is applicant's intent to include Figure 9. However, Figure 9 had not been included in the application papers when this continuation application was filed. It is noted that Fig. 9 was added in the parent application: 09/267,251. No rejection/objection to the added paragraphs, description, etc. will be made as applicant is given the opportunity to file a copy of Fig. 9 in response to this action.
- 2. Claims 66 and 67 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding Claim 66, line 4 contains a period, and line 5 contains language misplaced and not understood relative to the claims.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 40-59,63-67,83-86,88 are rejected under 35 U.S.C. 102(b) as being anticipated by Nuding et al (4311973).

Regarding Claims 40-59,63-67,83-86 and 88 Nuding et al show a system and method for coupling two signal paths with two polarizations in the microwave (GHz) range, comprising means (1,2) for coupling first and second paths and means (defining a polarization plate) for rotating the polarization (7,8) of the

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signals in a plurality, two, equal-amount increments (0 and 45 degrees) where the polarizations are equal in magnitude and opposite in rotational direction, all arranged as claimed. The polarization is the same in the position where the waveguides are parallel. Orthogonal polarizations are shown in Fig. 1 at "II" and "III". Further regarding Claims 57-59, the coupler 7 is configured to effect substantially equal and additive changes in the polarizations at the junctions of the two waveguides. The changes oppose each other by virtue of different polarizations.

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 68-78,81,82 and 87 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nuding et al (4311973) in view of Seavey (4065772).

Regarding Claims 68-82 and 87, Nuding et al show a waveguide system for propagating a microwave (GHz) signal which enters the system oriented with a first polarization and exits the system at a second polarization, the system comprises, a first waveguide 2 coupled to a plate, a second waveguide 1 coupled to a plate. No polarization plate appears to be taught. Thus, Seavey shows a polarization plate 12 with an offset slot oriented 45 degrees and similar in geometry to the waveguide coupling and couples to an antenna to provide the desired polarization change. The plate is adapted to be coupled to that

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waveguide feeder as in Nuding et al. It would have been obvious to the skilled artisan to employ the polarization plate 12 and antenna of Seavey in the waveguide coupling of Nuding et al, for the purpose of providing circular polarization. A desired impedance occurs due to the coupling aperture/slot that couples the signals.

Allowable Subject Matter

- 7. Claims 79 and 80 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claims 60-62,89 and 90 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Wimer whose telephone number is (703) 305-3555. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K. Wong can be reached on (703) 308-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Michael C. Wimer Primary Examiner

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MCW June 6, 2002